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New Companies Medical Challenges Change People's Lives
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Biodiesel from heterotrophic and autotrophic microalgae: a sustainable production

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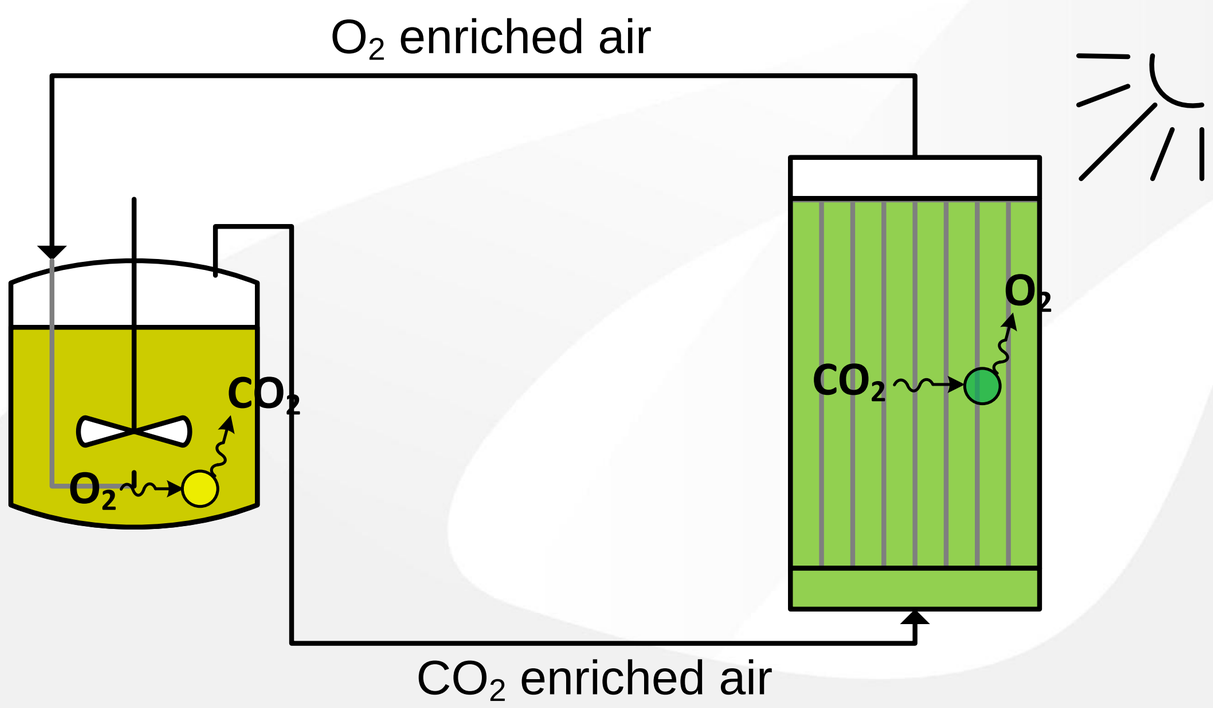
Main topics of interest:

Microalgae Autotrophic and Heterotrophic Culture, Carotenoids, Biodiesel.

Innovative Symbiotic Bioreactor

Advantages

- Simultaneous culture of heterotrophic and autotrophic microalgae
- Double production of microalgal biomass
- High lipid productivity
- High lipid quality to attain biodiesel according to European Norms
- Biomass residues can be converted into High Value Products (carotenoids) and other renewable energy (CH_4 and H_2)



Applications

- Microalgal biomass is free from toxic compounds (no flue gas is used), it can be applied for food, health and cosmetics.
- It can be applied to any heterotroph fermentation to reduce CO2 release
- It can operate in a confined environment where air is scarce: spaceship and underground

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